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PHOTOGRAPHIC INTERPRETATION REPORT

CHRONOLOGICAL DEVELOPMENT OF AIRFRAME PLANT NO 47 ORENBURG, USSR

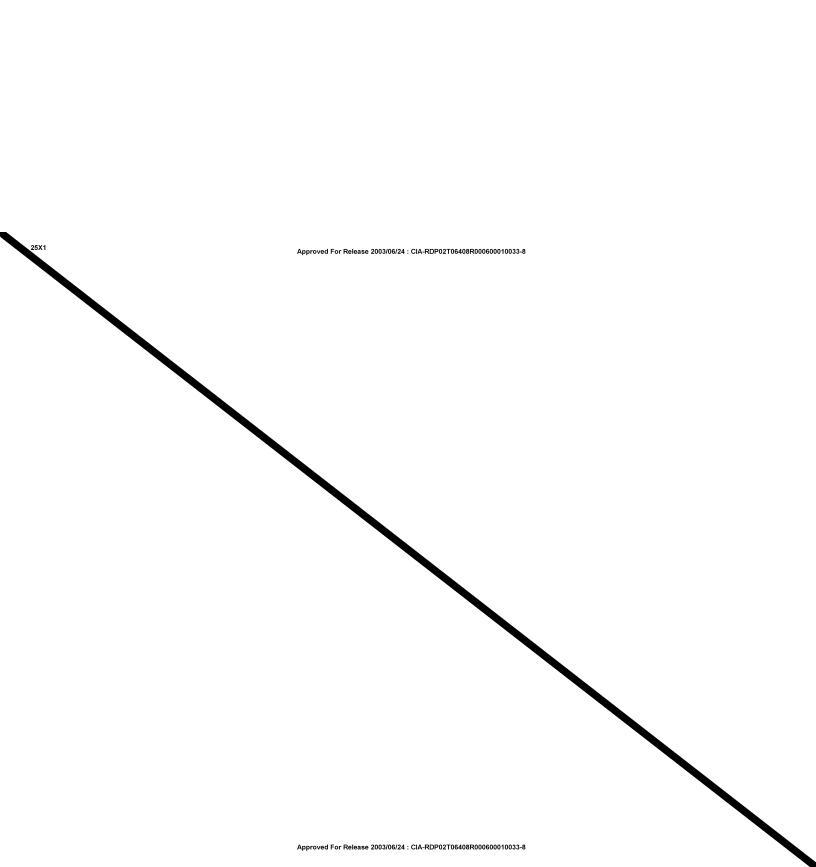
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CHRONOLOGICAL DEVELOPMENT OF AIRFRAME PLANT NO 47, ORENBURG, USSR

INTRODUCTION This report is a study of the chronological development

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of Airframe Plant No 47 151-48N 55-06E), Orenburg, USSR, based on information compiled from all available photography of the plant through Plant No 47 is located in the northeast suburbs of Orenburg (Figure 1). It is adjacent to the south side of Orenburg Airfield, which has 2 natural-surface runways. Other transportation services include an extensive network of rail spurs, which connect with 2 major rail lines, and a network of good all-weather roads. Since initial photographic coverage by Mission Plant No 47 (Figures 2-6) has been undergoing a large and apparently well planned construction program. The completion of many new buildings, additions to some of the older buildings, and current construction of $2\ large\ buildings\ (items\ 32\ and\ 80)$ will more than double the plant's original size. 1/ A firm statement as to the present production activities of Airframe Plant No 47 cannot be made, due to inadequate photographic evidence. Aircraft production cannot be confirmed or negated on the basis of either photography. Since the newly constructed facilities are of a type not usually associated with aircraft production. it is possible to conclude that Plant No 47 may not be producing aircraft. Missile production is a very definite probability because of the identification of large numbers of probable cruise-missile shipping crates (see Figure 4 and Table 1). These crates have the same general configuration as cruise-missile shipping crates which have been seen at missile sites in the USSR, Cuba, and China. Their overall measurements also are close to those of previously identified cruise-missile crates. The crates are located near a transshipment building (item 64) and a carpenter shop (item 65). The construction of 2 possible horizontal test buildings (items 25 and 27) and a checkout building (item 3),

the presence of long rail cars, and the stringent security

measures taken both during and after construction of new

facilities suggest an association of the plant with the Soviet missile program.

The building-by-building construction history of the plant is presented graphically in Figure 6 and in tabular form in Table 2, which also provides chronological details and interpretations of the basic functions of all structures in the plant; all item numbers are keyed to Figure 6 and Table 2.

HIGHLIGHTS OF THE DEVELOPMENT OF AIRFRAME PLANT NO 47

1960

Airframe Plant No 47 was first observed on at which time its major faci-

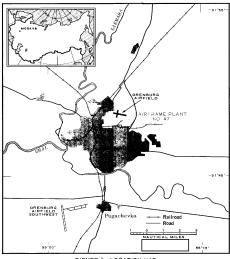


FIGURE 1. LOCATION MAP.

- 1 -TOP SECRET Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010033-8 lities consisted of a large assembly building (item 57), a large assembly/shop building (item 56), 3 shop buildings (items 55, 65, and 76), a large foundry (item 36), a transformer yard (item 4), and 2 steamplants (items 31 and 74). Expansion of the plant was evident at this time: footings were visible for a second large assembly building (item 62) and a large transshipment building (item 58). A possible test building (item 25) and a processing building (item 23) were also under construction.

1962 photography of provided the first photographic coverage of Plant No 47 since and revealed continued expansion of facilities. The transshipment building (item 58) had been completed, and some progress had been made on the second large assembly building (item 62). Two small processing buildings (items 5 and 7) were observed under construction. In a warehouse (item 59) was observed under construction the processing buildings (items 5, 7, and 23) and the possible test building (item 25) were completed.

1963

Significant construction occurring during the year included the completion of a new section joining 2 aircraft hangars to form a single new shop building (item 20), the completion of the second large assembly building (item 62), and the completion of the warehouse (item 59).

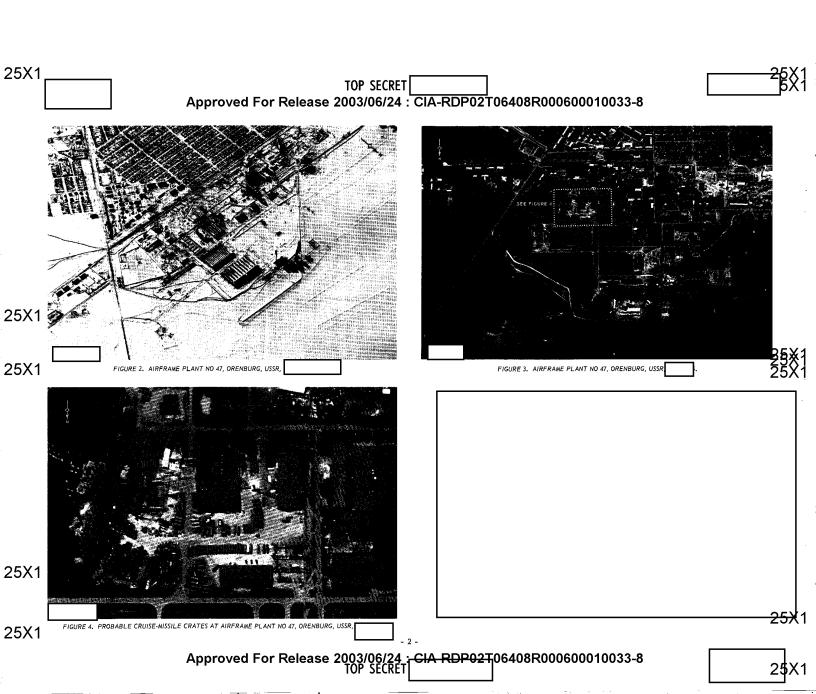
Construction activity was relatively light until when a second possible test building (item 27), a second large assembly/shop building (item 28), and a laboratory/ administration building (item 29) were first observed under construction. Also at this time it was evident that a new section would be added to the large assembly building first observed in (item 57).

A considerable increase in construction activity was noted during the year. The second possible test building

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∃§X1 25X1 TOP SECRET Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010033-8 25X1 25X1 FIGURE 5. AIRFRAME PLANT NO 47, ORENBURG, USSR

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Table 2. Data on Facilities of Airframe Plant No 47, Orenburg, USSR
(Item numbers are keyed to Figure 6)

Roof Cover Date First Date Complete Dimensions (ft) Item No Dimensions (ft) Date Comments Probable Function Probable Function Comments Complete W (sq ft) (sq ft) small bunker is located nearby ontains 2 small bays each rail served and connected by rail with item 3; equipped with a 25X1 Foundry Shop bldg Shop bldg Irregular Irregular 115 60 120 105 25 750 83,825 Revetted storage 13,400 6,900 12,600 37 38 39 40 bldg 110 95 10,450 Special-storage Probably serves as a shop bldg bldg Hangar Administration bldg Irregular 7,225 11,150 lightning arrester 41 Administration bldg Irregular regioning already erved by 5 rail spurs 4 of which pass through the bldg to con-nect with a rail spur from item 2; equipped with 2 lightning Shop bldg Warehouse Warehouse Checkout bldg 270 85 50 22,950 100 7,000 42 43 44 45 46 47 3.500 3,500 4,500 3,500 3,500 Varehouse Warehouse $\frac{100}{100}$ Transformer yard Processing bldg Warehouse erved by a rail spur; equipped with a lightning arrester and a vent/burn-off stack; connected with item 7 by an overhead 70 40 2.800 Warehouse 100 3,500 Warehouse Pumphouse 2 Utility bldgs 100 65 40 3 500 1,950 2,000 -23,500 Serves 2 underground water tanks Irregular 40 40 52 53 Foundry Utility bldg Utility shed 40 20 800 40 20 1,600 20 Equipped with a lightning arrester; probably connected by underground pipeline with item 23 Utility bldg Shop bldg Assembly/shop bldg Processing bldg 165 60 9,900 Rail served Served by a rail spur which enters the west side of the bldg 119.345 430 55 2 Helicopter pads New section added between Sep
bldg is served
by 2 rail spurs one of which deceiving area for incoming materials; served by rail spur and overhead cranes 445,700 57 Assembly bldg Irregular 25X1 by 2 rait spurs one of which enters bldg Rail served and served by an overhead crane Rail served Probably temporary construc-tion bldgs 16,875 4,200 2,250 Hangar 400 115 46,000 Transshipment Administration bldg 11 12 13 14 15 16 17 18 19 20 70 50 Administration bldg bldg2 Utility bldgs 4,500 Warehouse 240 9,600 Utility bldg Utility bldg Utility bldg Utility bldg 105 40 4,200 60 2 Utility bldgs 100 35 450 2,100 10,050 2,100 30 70 Shop bldg Assembly bldg Shop bldg $\frac{61}{62}$ 18,150 398,825 330 55 Irregular 200 70 Administration bldg Irregular 70 30 Rail served and served by an overhead crane 14,000 Utility bldg Utility bldg Shop bldg 70 70 30 2,100 Bldg expanded between Irregular 86,875 64 Transshipment 240 80 ---19,200 bldg Shop bldg $^{2,025}_{2,100}_{13,200}$ Utility bldg Utility bldg Carpenter shop for building the $\frac{45}{70}$ 45 65 990 165 ---36.300 shipping crates; new section added between eartially revetted; equipped with a lightning arrester and 2 vent/burn-off stacks Processing bldg Irregular 23 25X1 25X1 Connected with item 63 (shop bldg) 66 Spray pond 24 Fuel storage area onsists of at least 5 underconsists of at least 5 under-ground storage tanks served by 6 rail offloading points and a pumphouse; a lightning arrester is also located in this area 100 95 100 $\frac{40}{60}$ Warehouse 4,000 5,700 Shop bldg Warehouse Utility bldg Irregular 60 55 $\frac{71}{72}$ Utility bldg ossibly contains 3 small horizontal test cells Served by an overhead crane 25 Possible test bldg Irregular 4.225 120 65 7,800 system; rail served 6,400 7,500 Utility bldg Steamplant $\frac{100}{200}$ 30 80 3,000 $^{40}_{75}$ Doubled in size between rail served 25X1 25X1 Possible test bldg 27 Utility bldg Shop bldg Utility bldg Assembly/shop bldg 480 235 55 112,800 75 100 35 3.500 Laboratory/admin-istration bldg Revetted storage bldg Steamplant 29 12,000 Connected with item 28 by a 76 77 Irregular 40 20 70,600 800 covered walkway Probably temporary construc-30 31 32 30 20 tion bldg Laboratory/engi-neering bldg Warehouse Large bldg u/c Control point Irregular 17,500 78 240 60 14,400 Large bldg u/c 25 200 40 . ---1,000 8,000 33 34 Utility bldg Utility bldg 30 20 ------2 Utility bldgs 40 20 1,600

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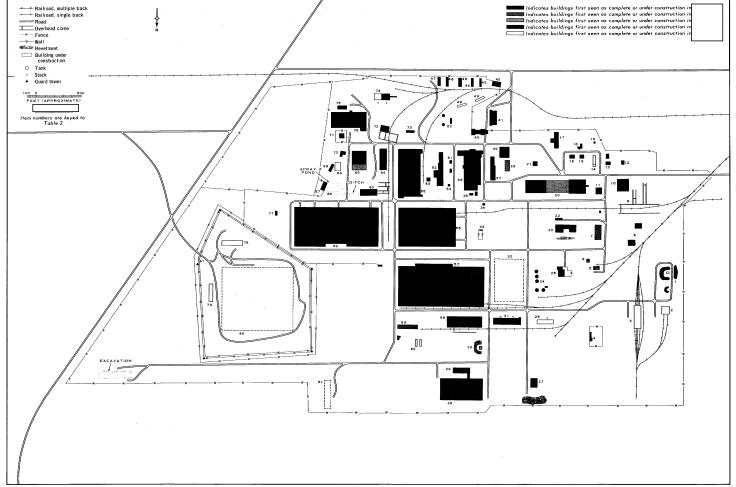


FIGURE 6. LAYOUT OF AIRFRAME PLANT NO 47.

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25X1 25X1	(item 27) was completed by and a small revetted sage building (item 1), a special-storage building (item a checkout building (item 3), and a small steamplant (item	n 2), the second large assembly/shop building (item 28), and the laboratory/administration building (item 29) were com-	The special-storage building (item 2) and the checko building (item 3) were completed by	out 25X1
25X1	were observed under construction. A laboratory/enginee building (item 78) and a very large building (item 80) vin a very early stage of construction in 1966 During the year, construction activity continue increase. The small revetted storage building (item 1) the new section of the large assembly building (item)	were a spray pond (item 66), and a warehouse (item 79) were observed under construction. In footings for a new large building (item 32) were first noted. Also by the construction of the very large building (item 80) had become do to highly sensitive; the building site had been completely and enclosed by a triple security fence, and guard towers had	By additional construction consisted of the completion of the warehouse (item 79) and the laboratory/ engineering building (item 78) and continued progress on structures previously mentioned as under construction.	
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